

ESR-7750

THE LEADER IN LONG RANGE WIRELESS HOME NETWORKING

300Mbps Wireless N Dual-Band Router

Wirelessly Network and Share Multimedia

2.4GHz

a b g n

Designed to be flexible and reliable, the EnGenius Wireless N Dual-Band Router offers the ultimate network performance for all data and media intensive applications. Two built-in Wireless N access points work together, simultaneously to provide double the bandwidth.. Networking, web surfing, email and file sharing all can be done using the 2.4GHz access point in the Router while latency sensitive traffic, like multimedia and HD video use the less crowded 5GHz band. Quality of Service ensures streaming video, VoIP, gaming, and multimedia applications receive highest priority for flawless performance. Industry standard wireless security and a powerful SPI firewall keep your network safe. The Wireless N Dual Band Router is a perfect choice for your home or small office.

One-Touch Setup**WDS****Power Saving****WEP, WPA WPA2****WiFi Multimedia**

Key Differentiators

SIMULTANEOUS DUAL-BAND WIRELESS 802.11N TECHNOLOGY

Two Access Points work together to double bandwidth and avoid interference. Supports 802.11a,b,g,n (Draft 2.0)

SMARTNAT

Ensures high performance when using P2P applications

MULTIPLE SSID

Allows media streaming to be segmented from regular data networking
Create a separate SSID for Guest Access

RANGE EXPANDER FEATURE

Extends the range of Wi-Fi networks

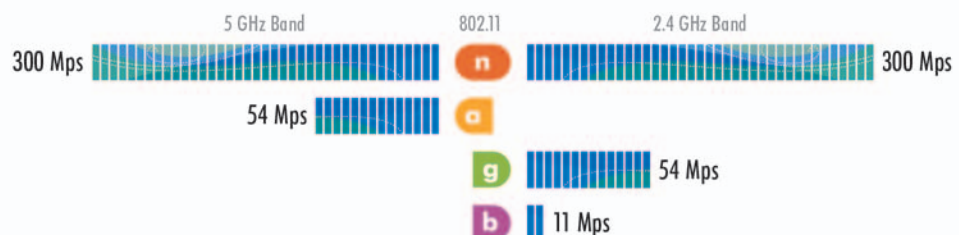
SECURITY & MANAGEMENT

Secure Push-Button Setup
Policy Based Parental Control for safe browsing
Power saving management (Green Technology)
Auto Firmware Recovery
Wi-Fi Protected Access (WPA2/WPA)
Powerful SPI Firewall
Wireless MAC Address Filtering

MULTIPLE INTERNAL ANTENNA ARRAY

Optimized internal antennas provide superior range

Wireless Speed Comparison



Maximum data rates are based on IEEE 802.11 standards. Actual throughput and range can vary depending on many factors including network conditions, environmental factors, distance between devices, radio interference in the operating environment, and mix of devices in the network

EnGenius®
www.engeniustech.com

Technical Specifications

Specifications may change without notice.

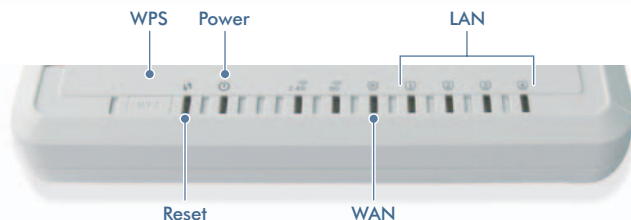
HARDWARE SPECIFICATION

MCU	Ralink RT2880 266MHz (BB) + RT2850 (5G RF) Ralink RT3052 384MHz SoC (BB+RF)
Memory	32MB SDRAM
Flash	4MB+2MB
Physical Interface	WAN: 1 * 10/100 Fast Ethernet RJ-45 LAN: 4 * 10/100 Fast Ethernet RJ-45 Reset Button (5 second for reboot; 5~10 seconds for reset to factory default) Power Jack WPS push button (Wi-Fi Protected Setup)
LED's Status	Power/Status Internet (WAN) LAN1 ~ LAN4 (10/100Mbps) WLAN 2.4GHz WLAN 5GHz WPS
Power Requirements	Power Supply: 200 to 240 VDC \pm 10% (ETSI) 100 to 120 VDC \pm 10% (FCC) Device: 12V/1.25A

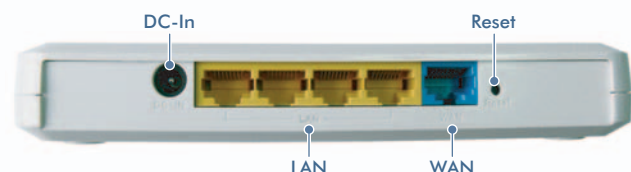
RF SPECIFICATION

Frequency Band	2.400~2.484 GHz (11b, 11g, 11n), 5GHz (11a, 11n)
Modulation Technology	OFDM: BPSK, QPSK, 16-QAM, 64-QAM DBPSK, DQPSK, CCK
Operation Channels	2.4GHz 11 for North America, 14 for Japan, 13 for Europe 5GHz North America, Europe
Wireless Settings	Operation Mode – AP / Router Wireless Mode – 11a/11b/ 11g /11n (Draft 2.0) Channel Selection (Setting varies by Country) Channel Bandwidth (Auto, 20Mhz, 40Mhz) Transmission Rate – 11n only mode, 11b/g/n mix mode, 11b only mode, 11b/g mode, 11a mode, 11a/b/g/n mix mode
Receive Sensitivity (Typical)	11b: -91dBm 11g: -75dBm 11a: -75dBm 11n: -75dBm
Available Transmit Power	11b: 17dBm 11g: 14dBm 11a: 14dBm 11n: 15dBm
Antenna *4	Peak Gain = 4 dBi
Front Panel (LED status)	
WAN	1 (Link-> blue on, traffic->blink)
LAN	4 (Link-> blue on, traffic->blink)
WLAN	2 (Link-> blue on, traffic->blink)
WPS	1 (Station associate-> blue blinking)
Power/Status	1 (On-> red Test/reset default->blink)

FRONT PANEL



BACK PANEL



SOFTWARE FEATURES

Router and Gateway		
Topology	Infrastructure	
Operation Mode	AP/Router	
LAN	Over 26% Power saving (Green technology) DHCP Server	Static Routing Table UPNP Speed/Bandwidth monitor
WAN	PPTP • PPPoE • Static IP • DHCP Client • Clone MAC address	
Router	NAT/ NAPT Static Routing Dynamic Route Virtual server mapping IP address mapping Port Forwarding Port Triggering	Special application ALG(Application Layer Gateway) support (RTP/RTSP, AOL, FTP, ICMP, WMP/MMS, NetMeeting, SIP) DNS Relay DDNS Time Zone(NTP client)
Firewall	Block ICMP Ping DoS(Blocking Ping, Port scan, Sync Flood) MAC / IP Filtering SPI (Stateful Packet Inspection)	DMZ (Demilitarized Zone) Host Support Policy Based Parental Controls Port Range / Service Filtering Internet Domain Restriction Dynamic URL Filtering (OEM subscription service)
VPN	VPN pass-through (PPTP, L2TP, IPSEC)	
Wireless	Isolation Multiple SSID Output Power Control WDS Power saving(Green technology) 64/128 bit WEP Encryption	WPA Personal (WPA-PSK using TKIP or AES) WPA Enterprise (WPA-EAP using TKIP) 802.1x Authenticator Hide SSID in beacons Wi-Fi Protection Setup (WPS) MAC address filter Best channel selection
QoS	WMM Application base: Priority Queue • Bandwidth Allocation	
Management		
Smart wizard	Guides user through setup process	
Configuration	Web-based configuration (HTTP)	
Firmware Upgrade	Via webpage upgrade Auto recovery if firmware upgrade fails	
Administrator Setting	Administrator password change Idle time out	
Reset Setting	Reboot Reset to Factory Default	
System monitoring	Speed and Bandwidth monitoring	
Scheduling	Enable Firewall Enable power saving	

ENVIRONMENT & PHYSICAL

Temperature Range	Operating: 0°C to 45°C (32°F to 113°F) Storage: -10°C to 70°C (14°F to 158°F)
Humidity (non-condensing)	15% ~ 95% typical
Dimensions	L: 6.69" (170mm) x W: 4.37" (111mm) x H: 1.02" (26mm)
Weight	Around 0.71lb. (320g)

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